

### . Daftar Pustaka

- [1] D. K. K. RI, "Departemen Kementrian Kesehatan RI," Departemen Kementrian Kesehatan RI, 4 Februari 2015. [Online]. Available: <http://www.depkes.go.id/resources/download/pusdatin/buletin/buletin-kanker.pdf>. [Accessed 25 Agustus 2015].
- [2] W. H. Organization, "Internation Agency of Research on Cancer," World Health Organization, Agustus 2012. [Online]. Available: <http://www.iarc.fr/en/media-centre/iarcnews/pdf/Global%20factsheet-2012.pdf>. [Accessed 25 Agustus 2015].
- [3] W. S. d. R. Moss, Requirement for Boron Neutron Capture Therapy (BNCT) at a Nuclear Research Reactor, Belanda: The European Project, 2009.
- [4] Teruyoshi Kageji, "Boron Neutron Capture Therapy (BNCT) for newly-diagnosed glioblastoma : comparison of clinical result obtained with BNCT and conventional treatment.," *The Journal of Medical Investigation* , vol. 61, pp. 254-263, 2014.
- [5] Y. Nakagawa, Neutron Capture therapy: principles and aplication, Springer: London, 2012.
- [6] K W Burn, "The epithermal neutron beam for BNCT under construction at TAPIRO :Physics," *EPS Euroconference XIX Nuclear Physics Divisional Conference*, pp. 1-3, 2006.
- [7] Rofl F. Barth, "Borion Neutron Capture Therapy of Cancer Current Status and future Prospect," *American Assosiation for cancer research*, pp. 1-3, 2005.
- [8] T. SEPPÄLÄ, FIR 1 EPITHERMAL NEUTRON BEAM MODEL, Helsinki: Department of Physical Sciences Faculty of Science University of Helsinki, 2002.
- [9] Y. Itsuro Katoa, "Effectiveness of BNCTfor recurrent head and neck malignancies," *Applied Radiation and Isotopes*, pp. 1069-1073, 2004.
- [10] Fatemeh s.Rasouli, "Design of a model for BSA to meet free bam parameter for BNCT on multiplier system for D-T neutron source," *Annals of Nuclear Energy*, pp. 1-2, 2011.
- [11] Muhammad ilma Muslih Arrozaqi, "Perancangan Kolimator di Beam port Tembus Reaktor Kartini Untuk Boron Neutron Capture Therapy," *Jurnal Teknofisika*, 2013.
- [12] O. K. H. a. K. J. Riley, "Fission Reactor Neutron Sources for Neutron Capture Therapy- aCritical Review," *Journal Of Neuro- Oncology* , vol. 62, pp. 7-17, 2003.
- [13] O. K. H. d. K. J. Riley, "Fission Reactor-based Irradiation Facilities for Neutron Capture Therapy," *Neutron Capture Therapy Principles and Applications*, no. ISBN 978-3-642-31334-9, pp. 19-40, 2012.

- [14] M. Alotiby, Boron Neutron Capture Therapy for Cancer Treatments, surrey: University of Surrey, 2012.
- [15] W. A. G. Sauerwein, "Priciples and Roots of Neutron Capture Therapy," *Neutron Capture Therapy Principles and Applications*, no. ISBN 978-3-642-31334-9, pp. 1-9, 2012.
- [16] IAEA, Current status of neutron capture therapy, Vienna: Applied Radiation Biology and Radiation Dosimetry dan Medical Radiation Physics Section Division of Human Health and Physics Section Division of Physical and Chemical Science, 2001.
- [17] S. F. M. Fatemeh S. Rasouli, "Design and optimiz ation of a beam shaping assembly for BNCT based on D–T neutron generator and dose evaluation using a simulated head phantom," *Applied Radiation and Isotopes*, pp. 1-2, 2012.
- [18] N. Fauziah, A Conceptual Design of Neutron Collimator in The Thermal Column of Kartini Research Reactor for Boron Neutron Capture Therapy, Yogyakarta: Departemen Jurusan Teknik Fisika, Unuversitas Gadjah Mada, 2013.
- [19] M. Maucec, "Conceptual Design of Epithermal Neutron Beam for BNCT in the Thermalizing Column of TRIGA Reactor," *Nuclear Energy in Central Europe*, 3-10, 1998.
- [20] Yaser Kasesaz, "Design of an epithermal neutron beam for BNCT in thermal column of Tehran research reactor," *Annals of Nuclear Energy*, vol. 68, pp. 234-238, 2014.
- [21] M.R. Abdi, "Collimator Design for Neutron Radiography Systems Using a Reactor Flux," *Middle-East Journal of Scientific Research*, vol. 11, no. ISSN 1990-9233, pp. 648-651, 2012.
- [22] K.W. Burn, "An epithermal facility for treating brain gliomas at the TAPIRO reactor," *Applied Radiation and Isotopes*, vol. 61, p. 987 – 991, 2004.
- [23] D. Wahyuningsih, Optimasi Desain Kolimator untuk Uji In Vivo Boron Neutron Capture Therapy (BNCT) pada Beam Port Tembus Reaktor Kartini Menggunakan Simulasi Monte Carlo N Particle 5 (MCNP5), Yogyakarta: Fakultas Mipa, UGM, 2014.
- [24] G. MacGillivray, "Neutron Radiography Collimator Design," Nray Services Inc., Petawawa, Ontario, Canada, 2011.
- [25] D. j. Turkoglu, "Design, Construction and Characterization of an External Neutron Beam Facility at The Ohio State University Nuclear Reactor Laboratory," Ohio State University , Ohio, 2012.

- [26] T. N. editor, "Tribe News," 5 04 2013. [Online]. Available: <http://www.thenewstribes.com/2013/04/05/modern-anti-cancer-bnc-therapy-promises-no-side-effects/>. [Accessed 25 08 2015].
- [27] Li Deng, "The Dosimetry Calculation for Boron Neutron Capture Therapy," *Diagnostic Techniques and Surgical Management of Brain Tumors*, pp. 174-198, 2011.
- [28] Rolf F Barth<sup>1</sup>, "Current status of boron neutron capture therapy of high grade gliomas and recurrent head andneck cancer," *Radiation Oncology*, pp. 1-21, 2012.
- [29] "MiscTech," MiscTech, januari 1993. [Online]. Available: <http://www.sweethaven.com/sweethaven/MiscTech/Nuclear/Lesson0202.pdf>. [Accessed 25 8 2015].
- [30] N. Tsoulfanidis, *Measurement and Detection of Radiation*, Washington,DC: Taylor & Francis, 1995.
- [31] F. M. Khan, *The Physics of Radiation Therapy*, Minneapolis: Lippincott Williams & Wilkins, 2010.
- [32] G. Lucas, *MCNP Tutorial*, Wincousin: UW-Engineering Physics Department, 2010.
- [33] M. M. A. S.T, *Dasar-dasar Pemograman MCNPX*, Yogyakarta: Pusat Sains dan Teknologi Akselerator Badan Tenaga Nuklir Nasional, 2014.
- [34] MahmudAchmad. [Online]. Available: <http://www.unhas.ac.id/lkpp/tani/Mahmud%20-%20BAB%207.pdf>. [Accessed 25 Agusutus 2015].
- [35] D. B. Pelowitz, *MCNPX(TM) USER'S MANUAL*, Los Alamos: Los Alamos National Security, 2008.
- [36] B. T. N. N. (BATAN), "Laporan Analisis Keselamatan Reaktor Kartini Rev.7," Pusat Teknologi Akselerator dan Proses Bahan (PTATB-BATAN), Yogyakarta, 2008.
- [37] Sofia Mubarika, "Analisis dan Penentuan Distribusi Fluks Neutron Thermal Arah Aksial dan Radial Teras Reaktor Kartini dengan Detektor Swadaya," *Jurnal Sains & Matematika (JSM)*, vol. 14, no. 4, pp. 155-159, 2006.
- [38] G. D. Kerr, "Reassessment of the Atomic Bomb Radiation Dosimetry for Hiroshima and Nagasaki: Dosimetry System 2002.," A research report, Radiation Effects Research Foundation, Hiroshima, 2005.

- [39] "Alibaba," 25 8 2015. [Online]. Available:  
[http://www.alibaba.com/trade/search?fsb=y&IndexArea=product\\_en&CatId=&SearchText=HDPE](http://www.alibaba.com/trade/search?fsb=y&IndexArea=product_en&CatId=&SearchText=HDPE). [Accessed 25 8 2015].
- [40] "Alibaba," 25 8 2015. [Online]. Available:  
[http://www.alibaba.com/trade/search?fsb=y&IndexArea=product\\_en&CatId=&SearchText=aluminum](http://www.alibaba.com/trade/search?fsb=y&IndexArea=product_en&CatId=&SearchText=aluminum). [Accessed 25 8 2015].
- [41] "Alibaba," 25 8 2015. [Online]. Available:  
<http://www.alibaba.com/showroom/bismuth-price.html>. [Accessed 25 8 2015].
- [42] "London Metal Exchange," 25 8 2015. [Online]. Available:  
<http://www.lme.com/en-gb/metals/non-ferrous/nickel/>. [Accessed 25 8 2015].
- [43] "Qatar Sulphur Price," 25 8 2015. [Online]. Available:  
[http://www.tasweeq.com.qa/\(X\(1\)S\(czkno5yromdu3hmrsreif5fx\)\)/En/RegulatedProducts/Pages/QatarSulphurPrices.aspx?AspxAutoDetectCookieSupport=1](http://www.tasweeq.com.qa/(X(1)S(czkno5yromdu3hmrsreif5fx))/En/RegulatedProducts/Pages/QatarSulphurPrices.aspx?AspxAutoDetectCookieSupport=1).  
[Accessed 25 8 2015].